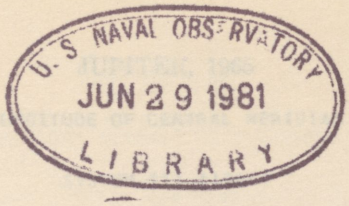
QB
4
U33
C.1



UNITED STATES NAVAL OBSERVATORY

CIRCULAR NO. 161

U. S. Naval Observatory, Washington, D.C. 20390 November 24, 1980

EPHEMERIS OF THE SYSTEM III (1965) LONGITUDE OF THE CENTRAL MERIDIAN OF JUPITER

by

Victoria Meiller

U.S. NAVAL OBSERVATORY
JUN 29 1981
LIBRARY

Ephemeris of the System III (1965) Longitude of the Central Meridian of Jupiter

A new definition of Jupiter longitudes, to be known as System III (1965), was adopted by Commission 40 of the International Astronomical Union during the Sixteenth General Assembly in Grenoble, France, August 1976. The implementing resolution is:

"We have concluded that the provisional rotational period adopted for Jupiter's System III (1957.0) longitude measure is inadquate for current use. Consequently, we propose the adoption of a new System III measure, for which the sidereal rotation rate of Jupiter is 870°.536 per Ephemeris day. Further, we propose that the epoch shall be 1965 January $1^d00^h00^m00^s$ ET, that the longitude at epoch of the central meridian, as observed from Earth, shall be 217°.595, and that the system be called System III (1965)."

In this Circular, an ephemeris of the central meridian of the geometric disk on this system, with the correction for phase to reduce to the illuminated disk, is given for the years 1965 to 1980. Ephemerides for subsequent years will be tabulated annually in *The Astronomical Almanac*.

The values of ΔT = ET − UT used to reduce the longitude from ET to UT are:

Year	ΔT	Year	ΔT
1965	36^s	1973	44^s
1966	37	1974	45
1967	38	1975	46
1968	39	1976	47
1969	40	1977	48
1970	41	1978	49
1971	42	1979	50
1972	43	1980	51

This publication supersedes *U. S. Naval Observatory Circulars 94, 117* and *137.*

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	218.0	201.6	91.3	70.3	258.6	237.5	67.2	48.6	32.0	227.2	215.7	55.7
2	8.5	352.0	241.6	220.6	48.9	27.9	217.5	199.0	182.4	17.8	6.4	206.4
3	159.0	142.4	31.9	10.9	199.2	178.2	7.8	349.4	332.9	168.4	157.0	357.0
4	309.4	292.7	182.2	161.2	349.4	328.5	158.2	139.8	123.4	318.9	307.6	147.7
5	99.9	83.1	332.5	311.4	139.7	118.8	308.5	290.2	273.9	109.5	98.3	298.4
6	250.4	233.5	122.8	101.7	290.0	269.1	98.9	80.6	64.3	260.0	248.9	89.1
7	40.9	23.8	273.1	252.0	80.3	59.4	249.2	231.0	214.8	50.6	39.6	239.8
8	191.4	174.2	63.4	42.3	230.6	209.7	39.6	21.4	5.3	201.2	190.2	30.5
9	341.8	324.6	213.7	192.5	20.9	360.0	189.9	171.8	155.8	351.7	340.9	181.1
10	132.3	114.9	4.0	342.8	171.1	150.3	340.3	322.2	306.3	142.3	131.5	331.8
11	282.8	265.3	154.3	133.1	321.4	300.6	130.6	112.6	96.8	292.9	282.2	122.5
12	73.2	55.6	304.6	283.4	111.7	90.9	281.0	263.1	247.3	83.5	72.9	273.2
13	223.7	206.0	94.9	73.6	262.0	241.3	71.4	53.5	37.8	234.1	223.5	63.8
14	14.1	356.3	245.2	223.9	52.3	31.6	221.7	203.9	188.3	24.7	14.2	214.5
15	164.6	146.7	35.5	14.2	202.6	181.9	12.1	354.3	338.8	175.2	164.9	5.2
16	315.0	297.0	185.8	164.5	352.8	332.2	162.5	144.8	129.3	325.8	315.5	155.9
17	105.5	87.4	336.1	314.7	143.1	122.5	312.8	295.2	279.8	116.4	106.2	306.5
18	255.9	237.7	126.4	105.0	293.4	272.8	103.2	85.6	70.3	267.0	256.9	97.2
19	46.3	28.0	276.6	255.3	83.7	63.2	253.6	236.1	220.8	57.6	47.5	247.9
20	196.8	178.4	66.9	45.6	234.0	213.5	43.9	26.5	11.3	208.2	198.2	38.6
21	347.2	328.7	217.2	195.8	24.3	3.8	194.3	176.9	161.9	358.9	348.9	189.2
22	137.6	119.0	7.5	346.1	174.6	154.1	344.7	327.4	312.4	149.5	139.6	339.9
23	288.0	269.3	157.8	136.4	324.9	304.5	135.1	117.8	102.9	300.1	290.2	130.6
24	78.4	59.7	308.1	286.7	115.2	94.8	285.5	268.3	253.4	90.7	80.9	281.2
25	228.8	210.0	98.4	77.0	265.5	245.1	75.8	58.7	44.0	241.3	231.6	71.9
26	19.2	0.3	248.6	227.2	55.8	35.5	226.2	209.2	194.5	31.9	22.3	222.5
27	169.6	150.6	38.9	17.5	206.1	185.8	16.6	359.6	345.1	182.6	173.0	13.2
28	320.0	300.9	189.2	167.8	356.4	336.1	167.0	150.1	135.6	333.2	323.6	163.8
29	110.4		339.5	318.1	146.6	126.5	317.4	300.6	286.1	123.8	114.3	314.5
30	260.8		129.8	108.3	296.9	276.8	107.8	91.0	76.7	274.4	265.0	105.1
31	51.2		280.0		87.2		258.2	241.5		65.1		255.8

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.4	-0.6	-0.5	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.3	+0.1
3	0.4	0.6	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3	0.0
5	0.4	0.6	0.5	0.2	-0.1	0.0	0.1	0.3	0.5	0.5	0.3	0.0
7	0.4	0.6	0.5	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.0
9	0.4	0.6	0.4	0.2	0.0	0.0	0.1	0.4	0.5	0.5	0.3	0.0
11	-0.5	-0.6	-0.4	-0.2	0.0	0.0	+0.1	+0.4	+0.5	+0.5	+0.2	0.0
13	0.5	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0
15	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0
17	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0
19	0.5	0.5	0.4	0.1	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0
21	-0.5	-0.5	-0.4	-0.1	0.0	0.0	+0.2	+0.4	+0.6	+0.4	+0.1	0.0
23	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.5	0.6	0.4	0.1	0.0
25	0.5	0.5	0.3	0.1	0.0	0.1	0.2	0.5	0.6	0.4	0.1	0.0
27	0.5	-0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0
29	0.5		0.3	-0.1	0.0	+0.1	0.3	0.5	+0.6	0.4	+0.1	0.0
31	-0.6		-0.3		0.0		+0.3	+0.5		+0.4		0.0

JUPITER, 1966

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	46.4	34.5	287.5	268.8	98.0	76.8	265.6	245.6	227.0	59.8	45.5	243.3
2	197.1	185.0	77.9	59.1	248.3	227.1	55.9	35.9	17.4	210.3	196.1	33.9
3	347.7	335.5	228.3	209.5	38.6	17.4	206.2	186.2	167.8	0.8	346.6	184.5
4	138.3	126.0	18.7	359.8	188.9	167.7	356.5	336.6	318.2	151.2	137.2	335.2
5	288.9	276.5	169.1	150.1	339.1	318.0	146.8	126.9	108.6	301.7	287.7	125.8
6	79.6	67.0	319.5	300.4	129.4	108.2	297.1	277.3	259.0	92.2	78.3	276.5
7	230.2	217.5	109.9	90.8	279.7	258.5	87.4	67.6	49.4	242.7	228.9	67.1
8	20.8	8.0	260.3	241.1	70.0	48.8	237.7	218.0	199.8	33.1	19.4	217.7
9	171.4	158.5	50.7	31.4	220.3	199.1	28.1	8.3	350.2	183.6	170.0	8.4
10	322.0	309.0	201.1	181.7	10.6	349.4	178.4	158.7	140.6	334.1	320.6	159.0
11	112.6	99.5	351.4	332.0	160.9	139.7	328.7	309.1	291.0	124.6	111.1	309.7
12	263.2	250.0	141.8	122.3	311.1	290.0	119.0	99.4	81.4	275.1	261.7	100.4
13	53.8	40.4	292.2	272.6	101.4	80.3	269.3	249.8	231.9	65.6	52.3	251.0
14	204.4	190.9	82.6	62.9	251.7	230.6	59.6	40.1	22.3	216.1	202.9	41.7
15	355.0	341.4	232.9	213.2	42.0	20.8	209.9	190.5	172.7	6.6	353.5	192.3
16	145.6	131.8	23.3	3.5	192.3	171.1	0.3	340.9	323.1	157.1	144.1	343.0
17	296.2	282.3	173.7	153.9	342.6	321.4	150.6	131.2	113.6	307.6	294.7	133.7
18	86.8	72.7	324.0	304.2	132.8	111.7	300.9	281.6	264.0	98.1	85.3	284.3
19	237.4	223.2	114.4	94.5	283.1	262.0	91.2	72.0	54.4	248.6	235.9	75.0
20	27.9	13.6	264.7	244.8	73.4	52.3	241.6	222.3	204.9	39.1	26.5	225.7
21	178.5	164.1	55.1	35.1	223.7	202.6	31.9	12.7	355.3	189.6	177.1	16.3
22	329.1	314.5	205.4	185.4	14.0	352.9	182.2	163.1	145.8	340.2	327.7	167.0
23	119.6	105.0	355.8	335.6	164.3	143.2	332.5	313.5	296.2	130.7	118.3	317.7
24	270.2	255.4	146.1	125.9	314.5	293.5	122.9	103.8	86.6	281.2	268.9	108.4
25	60.7	45.8	296.5	276.2	104.8	83.8	273.2	254.2	237.1	71.7	59.5	259.0
26	211.3	196.2	86.8	66.5	255.1	234.1	63.5	44.6	27.5	222.3	210.1	49.7
27	1.8	346.7	237.2	216.8	45.4	24.4	213.9	195.0	178.0	12.8	0.8	200.4
28	152.4	137.1	27.5	7.1	195.7	174.7	4.2	345.4	328.5	163.3	151.4	351.1
29	302.9		177.8	157.4	346.0	325.0	154.5	135.8	118.9	313.9	302.0	141.7
30	93.4		328.2	307.7	136.3	115.3	304.9	286.2	269.4	104.4	92.6	292.4
31	244.0		118.5		286.5		95.2	76.6		255.0		83.1

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.2	+0.4	+0.5	+0.4
3	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
5	0.1	0.4	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
7	0.1	0.4	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
9	0.1	0.4	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
11	-0.1	-0.4	-0.5	-0.4	-0.2	-0.1	0.0	+0.1	+0.3	+0.5	+0.5	+0.3
13	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.2
15	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.2
17	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.4	0.5	0.5	0.2
19	0.2	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4	0.2
21	-0.2	-0.5	-0.5	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.5	+0.4	+0.2
23	0.2	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4	0.1
25	0.2	0.5	0.5	0.4	0.1	0.0	0.0	0.2	0.4	0.5	0.4	0.1
27	0.3	-0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4	0.5	0.4	0.1
29	0.3		0.5	-0.3	0.1	0.0	0.0	0.2	+0.4	0.5	+0.4	0.1
31	-0.3		-0.5		-0.1		+0.1	+0.2		+0.5		+0.1

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	233.8	224.6	121.3	106.2	297.6	277.5	106.2	85.5	65.6	256.6	240.0	75.2
2	24.5	15.2	271.8	256.6	88.0	67.8	256.5	235.8	215.9	47.0	30.5	225.8
3	175.2	165.9	62.4	47.1	238.3	218.1	46.8	26.1	6.2	197.4	180.9	16.3
4	325.8	316.5	212.9	197.5	28.6	8.3	197.1	176.4	156.6	347.8	331.4	166.9
5	116.5	107.1	3.4	347.9	179.0	158.6	347.4	326.7	306.9	138.2	121.9	317.4
6	267.2	257.8	153.9	138.3	329.3	308.9	137.7	117.0	97.3	288.7	272.4	108.0
7	57.9	48.4	304.5	288.7	119.6	99.2	288.0	267.3	247.6	79.1	62.8	258.6
8	208.6	199.0	95.0	79.1	270.0	249.5	78.3	57.7	38.0	229.5	213.3	49.1
9	359.3	349.6	245.5	229.5	60.3	39.8	228.6	208.0	188.4	19.9	3.8	199.7
10	149.9	140.2	36.0	19.9	210.6	190.1	18.9	358.3	338.7	170.3	154.3	350.3
11	300.6	290.9	186.5	170.3	0.9	340.4	169.2	148.6	129.1	320.7	304.8	140.8
12	91.3	81.5	337.0	320.7	151.3	130.7	319.5	298.9	279.4	111.1	95.3	291.4
13	242.0	232.1	127.5	111.1	301.6	281.0	109.8	89.2	69.8	261.6	245.8	82.0
14	32.6	22.7	278.0	261.5	91.9	71.3	260.1	239.6	220.2	52.0	36.3	232.6
15	183.3	173.3	68.5	51.8	242.2	221.6	50.4	29.9	10.5	202.4	186.8	23.2
16	334.0	323.9	219.0	202.2	32.5	11.9	200.6	180.2	160.9	352.8	337.3	173.8
17	124.7	114.5	9.5	352.6	182.9	162.2	350.9	330.5	311.3	143.3	127.8	324.4
18	275.3	265.1	159.9	143.0	333.2	312.5	141.2	120.9	101.6	293.7	278.3	115.0
19	66.0	55.6	310.4	293.3	123.5	102.8	291.5	271.2	252.0	84.1	68.8	265.6
20	216.7	206.2	100.9	83.7	273.8	253.0	81.8	61.5	42.4	234.6	219.4	56.2
21	7.4	356.8	251.3	234.1	64.1	43.3	232.1	211.8	192.8	25.0	9.9	206.8
22	158.0	147.4	41.8	24.4	214.4	193.6	22.4	2.2	343.1	175.4	160.4	357.4
23	308.7	297.9	192.3	174.8	4.7	343.9	172.7	152.5	133.5	325.9	310.9	148.0
24	99.4	88.5	342.7	325.2	155.0	134.2	323.0	302.8	283.9	116.3	101.4	298.6
25	250.0	239.1	133.2	115.5	305.3	284.5	113.3	93.2	74.3	266.8	252.0	89.2
26	40.7	29.6	283.6	265.9	95.6	74.8	263.6	243.5	224.7	57.2	42.5	239.8
27	191.3	180.2	74.1	56.2	245.9	225.1	53.9	33.8	15.1	207.7	193.0	30.4
28	342.0	330.7	224.5	206.6	36.2	15.4	204.3	184.2	165.5	358.1	343.6	181.1
29	132.6		14.9	356.9	186.6	165.7	354.6	334.5	315.9	148.6	134.1	331.7
30	283.3		165.4	147.3	336.9	316.0	144.9	124.9	106.2	299.1	284.7	122.3
31	73.9		315.8		127.2		295.2	275.2		89.5		273.0

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	0.0	+0.2	+0.4	+0.5
3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.4	0.5
5	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.2	0.4	0.5
7	0.0	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.4	0.5
9	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5
11	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.5
13	0.0	0.1	0.4	0.5	0.4	0.2	0.1	0.0	0.1	0.3	0.5	0.5
15	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1	0.3	0.5	0.4
17	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.4
19	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.4
21	0.0	-0.2	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.3	+0.5	+0.4
23	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4
25	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4
27	0.0	-0.2	0.5	0.5	0.4	0.1	0.0	0.0	0.2	0.4	0.5	0.4
29	0.0		0.5	-0.5	0.3	-0.1	0.0	0.0	+0.2	0.4	+0.5	0.4
31	0.0		-0.5		-0.3		0.0	0.0		+0.4		+0.3

JUPITER, 1968

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	63.6	54.1	103.6	92.2	286.7	268.7	98.4	77.7	57.0	246.9	228.5	61.6
2	214.2	204.8	254.2	242.7	77.2	59.1	248.7	228.0	207.4	37.2	18.9	212.0
3	4.9	355.5	44.9	33.2	227.6	209.4	39.0	18.3	357.7	187.6	169.3	2.5
4	155.5	146.2	195.5	183.8	18.0	359.7	189.3	168.6	148.0	338.0	319.7	153.0
5	306.1	296.8	346.1	334.3	168.4	150.1	339.6	318.9	298.3	128.3	110.1	303.5
6	96.8	87.5	136.8	124.8	318.9	300.4	129.9	109.2	88.6	278.7	260.5	94.0
7	247.4	238.2	287.4	275.3	109.3	90.8	280.2	259.5	238.9	69.0	50.9	244.4
8	38.1	28.9	78.0	65.9	259.7	241.1	70.5	49.8	29.3	219.4	201.4	34.9
9	188.7	179.6	228.7	216.4	50.1	31.4	220.8	200.0	179.6	9.7	351.8	185.4
10	339.4	330.2	19.3	6.9	200.5	181.8	11.1	350.3	329.9	160.1	142.2	335.9
11	130.0	120.9	169.9	157.4	350.9	332.1	161.4	140.6	120.2	310.5	292.6	126.4
12	280.7	271.6	320.5	307.9	141.3	122.4	311.7	290.9	270.5	100.8	83.0	276.9
13	71.3	62.3	111.1	98.4	291.7	272.7	102.0	81.2	60.9	251.2	233.5	67.4
14	222.0	212.9	261.8	248.9	82.1	63.1	252.3	231.5	211.2	41.6	23.9	217.9
15	12.7	3.6	52.4	39.4	232.5	213.4	42.6	21.8	1.5	191.9	174.3	8.4
16	163.3	154.3	203.0	189.9	22.9	3.7	192.9	172.1	151.8	342.3	324.8	158.9
17	314.0	305.0	353.6	340.4	173.2	154.0	343.2	322.4	302.2	132.7	115.2	309.5
18	104.7	95.6	144.2	130.8	323.6	304.4	133.5	112.7	92.5	283.0	265.6	100.0
19	255.3	246.3	294.8	281.3	114.0	94.7	283.8	263.1	242.8	73.4	56.1	250.5
20	46.0	37.0	85.4	71.8	264.4	245.0	74.1	53.4	33.2	223.8	206.5	41.0
21	196.7	187.6	235.9	222.2	54.7	35.3	224.4	203.7	183.5	14.2	357.0	191.5
22	347.3	338.3	26.5	12.7	205.1	185.6	14.7	354.0	333.8	164.6	147.4	342.1
23	138.0	129.0	177.1	163.2	355.5	335.9	165.0	144.3	124.2	314.9	297.9	132.6
24	288.7	279.6	327.7	313.6	145.9	126.3	315.3	294.6	274.5	105.3	88.3	283.1
25	79.4	70.3	118.3	104.1	296.2	276.6	105.6	84.9	64.8	255.7	238.8	73.7
26	230.0	221.0	268.8	254.5	86.6	66.9	255.9	235.2	215.2	46.1	29.2	224.2
27	20.7	11.6	59.4	45.0	236.9	217.2	46.2	25.5	5.5	196.5	179.7	14.7
28	171.4	162.3	210.0	195.4	27.3	7.5	196.5	175.8	155.9	346.9	330.2	165.3
29	322.1	312.9	0.5	345.9	177.7	157.8	346.8	326.1	306.2	137.3	120.6	315.8
30	112.8		151.1	136.3	328.0	308.1	137.1	116.4	96.6	287.7	271.1	106.4
31	263.4		301.6		118.4		287.4	266.7		78.1		256.9

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.3	+0.1	0.0	-0.2	-0.5	-0.5	-0.3	-0.1	0.0	0.0	+0.2	+0.4
3	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4
5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.4
7	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.2	0.4
9	0.3	0.0	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.4
11	+0.2	0.0	-0.1	-0.3	-0.5	-0.4	-0.3	-0.1	0.0	+0.1	+0.3	+0.4
13	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.1	0.0	0.1	0.3	0.5
15	0.2	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1	0.3	0.5
17	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5
19	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5
21	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.3	+0.5
23	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5
25	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5
27	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5
29	0.1	0.0	0.2	-0.5	0.5	-0.3	0.1	0.0	0.0	0.2	+0.4	0.5
31	+0.1		-0.2		-0.5		-0.1	0.0		+0.2		+0.5

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	47.5	36.0	294.6	285.4	123.4	108.6	300.3	280.5	259.8	88.9	69.0	260.3
2	198.0	186.7	85.3	76.0	273.9	259.0	90.7	70.8	50.1	239.2	219.4	50.7
3	348.6	337.3	236.0	226.6	64.5	49.4	241.0	221.1	200.4	29.5	9.7	201.1
4	139.2	128.0	26.6	17.3	215.0	199.9	31.4	11.4	350.7	179.8	160.1	351.5
5	289.7	278.6	177.3	167.9	5.5	350.3	181.7	161.7	141.0	330.1	310.5	141.9
6	80.3	69.3	328.0	318.6	156.1	140.7	332.0	312.0	291.3	120.4	100.8	292.3
7	230.9	219.9	118.7	109.2	306.6	291.1	122.4	102.3	81.6	270.7	251.2	82.7
8	21.4	10.6	269.3	259.8	97.1	81.5	272.7	252.6	231.9	61.1	41.5	233.2
9	172.0	161.2	60.0	50.5	247.6	231.9	63.1	42.9	22.2	211.4	191.9	23.6
10	322.6	311.9	210.7	201.1	38.2	22.4	213.4	193.2	172.5	1.7	342.3	174.0
11	113.2	102.5	1.4	351.7	188.7	172.8	3.7	343.5	322.8	152.0	132.6	324.4
12	263.8	253.2	152.1	142.3	339.2	323.2	154.1	133.8	113.1	302.3	283.0	114.8
13	54.4	43.8	302.7	292.9	129.7	113.6	304.4	284.1	263.4	92.7	73.4	265.3
14	205.0	194.5	93.4	83.5	280.2	264.0	94.7	74.4	53.7	243.0	223.7	55.7
15	355.5	345.2	244.1	234.1	70.7	54.4	245.1	224.7	204.0	33.3	14.1	206.1
16	146.1	135.8	34.8	24.7	221.2	204.7	35.4	15.0	354.3	183.6	164.5	356.6
17	296.7	286.5	185.4	175.3	11.7	355.1	185.7	165.3	144.6	334.0	314.8	147.0
18	87.3	77.2	336.1	325.9	162.2	145.5	336.0	315.6	294.9	124.3	105.2	297.4
19	238.0	227.8	126.8	116.5	312.6	295.9	126.4	105.9	85.2	274.6	255.6	87.9
20	28.6	18.5	277.5	267.1	103.1	86.3	276.7	256.2	235.5	65.0	46.0	238.3
21	179.2	169.2	68.1	57.7	253.6	236.7	67.0	46.5	25.8	215.3	196.4	28.8
22	329.8	319.9	218.8	208.3	44.1	27.0	217.3	196.8	176.1	5.6	346.7	179.2
23	120.4	110.5	9.5	358.9	194.5	177.4	7.6	347.1	326.4	156.0	137.1	329.7
24	271.0	261.2	160.1	149.5	345.0	327.8	158.0	137.4	116.7	306.3	287.5	120.1
25	61.6	51.9	310.8	300.0	135.5	118.1	308.3	287.7	267.0	96.6	77.9	270.6
26	212.3	202.6	101.4	90.6	285.9	268.5	98.6	78.0	57.3	247.0	228.3	61.0
27	2.9	353.2	252.1	241.2	76.4	58.9	248.9	228.3	207.6	37.3	18.7	211.5
28	153.5	143.9	42.8	31.7	226.8	209.2	39.2	18.6	357.9	187.7	169.1	2.0
29	304.1		193.4	182.3	17.3	359.6	189.5	168.9	148.2	338.0	319.5	152.4
30	94.8		344.1	332.8	167.7	149.9	339.8	319.2	298.5	128.4	109.9	302.9
31	245.4		134.7		318.1		130.2	109.5		278.7		93.4

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.5	+0.3	+0.1	0.0	-0.2	-0.5	-0.5	-0.3	-0.1	0.0	0.0	+0.2
3	0.5	0.3	0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.2
5	0.5	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2
7	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.2
9	0.4	0.2	0.0	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3
11	+0.4	+0.2	0.0	-0.1	-0.3	-0.5	-0.4	-0.3	-0.1	0.0	+0.1	+0.3
13	0.4	0.2	0.0	0.1	0.3	0.5	0.4	0.2	0.1	0.0	0.1	0.3
15	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1	0.3
17	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3
19	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3
21	+0.4	+0.1	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.3
23	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4
25	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4
27	0.3	+0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4
29	0.3		0.0	-0.2	0.4	-0.5	0.3	0.1	0.0	0.0	+0.2	0.4
31	+0.3		0.0		-0.5		-0.3	-0.1		0.0		+0.4

JUPITER, 1970

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	243.9	229.9	126.6	117.0	317.1	305.8	140.6	122.8	102.9	291.9	271.2	101.0
2	34.3	20.4	277.2	267.7	107.8	96.4	291.0	273.1	253.2	82.2	61.5	251.3
3	184.8	171.0	67.9	58.4	258.4	246.9	81.5	63.5	43.5	232.5	211.8	41.7
4	335.3	321.6	218.5	209.1	49.1	37.4	231.9	213.8	193.9	22.8	2.1	192.0
5	125.8	112.1	9.1	359.8	199.7	188.0	22.3	4.2	344.2	173.1	152.4	342.4
6	276.3	262.7	159.8	150.4	350.3	338.5	172.8	154.5	134.5	323.4	302.8	132.7
7	66.8	53.3	310.4	301.1	141.0	129.0	323.2	304.9	284.8	113.7	93.1	283.1
8	217.2	203.9	101.1	91.8	291.6	279.6	113.6	95.2	75.1	264.0	243.4	73.4
9	7.7	354.4	251.7	242.5	82.2	70.1	264.0	245.6	225.4	54.3	33.7	223.8
10	158.2	145.0	42.4	33.2	232.9	220.6	54.4	35.9	15.7	204.6	184.0	14.1
11	308.7	295.6	193.0	183.8	23.5	11.1	204.8	186.2	166.0	354.8	334.3	164.5
12	99.2	86.2	343.7	334.5	174.1	161.6	355.2	336.6	316.3	145.1	124.7	314.9
13	249.7	236.8	134.3	125.2	324.7	312.1	145.6	126.9	106.6	295.4	275.0	105.2
14	40.3	27.4	285.0	275.9	115.3	102.6	296.0	277.2	256.9	85.7	65.3	255.6
15	190.8	178.0	75.6	66.5	266.0	253.1	86.4	67.6	47.2	236.0	215.6	46.0
16	341.3	328.6	226.3	217.2	56.6	43.6	236.8	217.9	197.5	26.3	5.9	196.3
17	131.8	119.2	17.0	7.9	207.2	194.1	27.2	8.2	347.8	176.6	156.3	346.7
18	282.3	269.8	167.6	158.5	357.8	344.6	177.6	158.5	138.1	326.9	306.6	137.1
19	72.8	60.4	318.3	309.2	148.4	135.1	328.0	308.9	288.4	117.2	96.9	287.5
20	223.4	211.0	109.0	99.9	299.0	285.6	118.4	99.2	78.6	267.5	247.3	77.8
21	13.9	1.6	259.6	250.6	89.5	76.0	268.8	249.5	228.9	57.8	37.6	228.2
22	164.4	152.2	50.3	41.2	240.1	226.5	59.1	39.8	19.2	208.1	187.9	18.6
23	315.0	302.8	201.0	191.9	30.7	17.0	209.5	190.1	169.5	358.4	338.3	169.0
24	105.5	93.4	351.6	342.5	181.3	167.4	359.9	340.4	319.8	148.7	128.6	319.4
25	256.0	244.1	142.3	133.2	331.9	317.9	150.3	130.8	110.1	299.0	278.9	109.8
26	46.6	34.7	293.0	283.9	122.4	108.4	300.6	281.1	260.4	89.4	69.3	260.1
27	197.1	185.3	83.7	74.5	273.0	258.8	91.0	71.4	50.7	239.7	219.6	50.5
28	347.7	336.0	234.3	225.2	63.6	49.3	241.4	221.7	201.0	30.0	9.9	200.9
29	138.2		25.0	15.8	214.1	199.7	31.7	12.0	351.3	180.3	160.3	351.3
30	288.8		175.7	166.5	4.7	350.2	182.1	162.3	141.6	330.6	310.6	141.7
31	79.3		326.4		155.3		332.4	312.6		120.9		292.1

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.4	+0.5	+0.3	+0.1	0.0	-0.2	-0.5	-0.5	-0.3	-0.1	0.0	0.0
3	0.4	0.5	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.0
5	0.4	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1
7	0.4	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1
9	0.4	0.4	0.3	0.0	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1
11	+0.4	+0.4	+0.2	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1
13	0.5	0.4	0.2	0.0	0.1	0.3	0.5	0.4	0.2	0.1	0.0	0.1
15	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1
17	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1
19	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1
21	+0.5	+0.4	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1
23	0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2
25	0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2
27	0.5	+0.3	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2
29	0.5		0.1	0.0	0.2	-0.5	0.5	0.3	-0.1	0.0	0.0	0.2
31	+0.5		+0.1		-0.2		-0.5	-0.3		0.0		+0.2

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	82.5	66.1	320.4	308.7	148.4	139.2	337.4	322.9	305.1	134.8	113.9	302.8
2	232.9	216.5	110.9	99.3	299.1	289.9	128.0	113.3	95.4	285.1	264.2	93.1
3	23.3	7.0	261.5	250.0	89.8	80.5	278.5	263.7	245.8	75.4	54.5	243.4
4	173.7	157.5	52.0	40.6	240.5	231.2	69.1	54.2	36.1	225.7	204.8	33.7
5	324.1	308.0	202.6	191.2	31.2	21.8	219.6	204.6	186.5	16.0	355.1	184.0
6	114.6	98.5	353.2	341.9	181.8	172.4	10.2	355.0	336.8	166.3	145.4	334.3
7	265.0	249.0	143.7	132.5	332.5	323.1	160.7	145.4	127.1	316.6	295.7	124.6
8	55.4	39.4	294.3	283.2	123.2	113.7	311.2	295.9	277.5	106.9	86.0	274.9
9	205.8	189.9	84.9	73.8	273.9	264.3	101.8	86.3	67.8	257.2	236.3	65.2
10	356.2	340.4	235.4	224.5	64.5	55.0	252.3	236.7	218.2	47.5	26.5	215.5
11	146.6	130.9	26.0	15.1	215.2	205.6	42.8	27.1	8.5	197.8	176.8	5.8
12	297.1	281.4	176.6	165.8	5.9	356.2	193.3	177.5	158.8	348.1	327.1	156.1
13	87.5	71.9	327.2	316.4	156.6	146.8	343.8	327.9	309.1	138.4	117.4	306.5
14	237.9	222.4	117.7	107.1	307.2	297.5	134.3	118.3	99.5	288.7	267.7	96.8
15	28.4	13.0	268.3	257.7	97.9	88.1	284.8	268.7	249.8	79.0	58.0	247.1
16	178.8	163.5	58.9	48.4	248.6	238.7	75.3	59.1	40.1	229.3	208.3	37.4
17	329.2	314.0	209.5	199.1	39.3	29.3	225.8	209.5	190.5	19.6	358.6	187.7
18	119.7	104.5	0.1	349.7	189.9	179.9	16.3	359.9	340.8	169.9	148.9	338.0
19	270.1	255.0	150.7	140.4	340.6	330.5	166.8	150.3	131.1	320.2	299.2	128.4
20	60.6	45.5	301.3	291.0	131.3	121.1	317.3	300.7	281.4	110.5	89.5	278.7
21	211.0	196.1	91.9	81.7	282.0	271.7	107.8	91.0	71.7	260.8	239.8	69.0
22	1.4	346.6	242.5	232.4	72.6	62.3	258.3	241.4	222.0	51.0	30.1	219.3
23	151.9	137.1	33.1	23.1	223.3	212.9	48.7	31.8	12.4	201.3	180.4	9.7
24	302.3	287.7	183.7	173.7	14.0	3.4	199.2	182.2	162.7	351.6	330.7	160.0
25	92.8	78.2	334.3	324.4	164.6	154.0	349.7	332.5	313.0	141.9	121.0	310.3
26	243.3	228.7	125.0	115.1	315.3	304.6	140.1	122.9	103.3	292.2	271.3	100.7
27	33.7	19.3	275.6	265.7	105.9	95.2	290.6	273.3	253.6	82.5	61.6	251.0
28	184.2	169.8	66.2	56.4	256.6	245.7	81.1	63.6	43.9	232.8	211.9	41.3
29	334.7		216.8	207.1	47.3	36.3	231.5	214.0	194.2	23.1	2.2	191.7
30	125.1		7.4	357.8	197.9	186.9	22.0	4.4	344.5	173.4	152.5	342.0
31	275.6		158.1		348.6		172.4	154.7		323.6		132.3

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	+0.2	+0.4	+0.5	+0.3	+0.1	0.0	-0.2	-0.5	-0.5	-0.3	-0.1	0.0
3	0.2	0.4	0.5	0.3	0.1	0.0	0.2	0.5	0.5	0.3	0.1	0.0
5	0.2	0.4	0.5	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0
7	0.3	0.4	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0
9	0.3	0.5	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0
11	+0.3	+0.5	+0.5	+0.3	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1	0.0
13	0.3	0.5	0.5	0.2	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0
15	0.3	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0
17	0.3	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0
19	0.3	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0
21	+0.4	+0.5	+0.4	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0
23	0.4	0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0
25	0.4	0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0
27	0.4	+0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0
29	0.4		0.4	+0.1	0.0	-0.2	0.5	0.5	-0.4	0.2	0.0	0.0
31	+0.4		+0.3		0.0		-0.5	-0.5		-0.1		0.0

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	282.7	264.0	306.4	292.0	129.6	119.8	320.0	309.0	294.5	126.4	106.3	295.0
2	73.0	54.4	96.9	82.6	280.2	270.5	110.7	99.6	85.0	276.7	256.6	85.2
3	223.4	204.8	247.4	233.1	70.8	61.2	261.3	250.1	235.4	67.1	46.9	235.5
4	13.7	355.2	37.8	23.7	221.4	211.9	52.0	40.7	25.9	217.4	197.2	25.8
5	164.1	145.6	188.3	174.2	12.1	2.5	202.6	191.2	176.3	7.8	347.5	176.1
6	314.4	296.0	338.8	324.8	162.7	153.2	353.2	341.8	326.7	158.1	137.8	326.4
7	104.7	86.4	129.3	115.3	313.3	303.9	143.9	132.3	117.1	308.4	288.1	116.7
8	255.1	236.9	279.7	265.9	104.0	94.6	294.5	282.8	267.6	98.8	78.4	266.9
9	45.4	27.3	70.2	56.5	254.6	245.2	85.2	73.4	58.0	249.1	228.7	57.2
10	195.8	177.7	220.7	207.0	45.3	35.9	235.8	223.9	208.4	39.4	19.0	207.5
11	346.2	328.1	11.2	357.6	195.9	186.6	26.4	14.4	358.8	189.8	169.3	357.8
12	136.5	118.5	161.7	148.2	346.6	337.3	177.1	164.9	149.2	340.1	319.6	148.1
13	286.9	268.9	312.2	298.8	137.2	128.0	327.7	315.5	299.6	130.4	109.9	298.4
14	77.2	59.4	102.7	89.3	287.9	278.6	118.3	106.0	90.0	280.8	260.1	88.6
15	227.6	209.8	253.2	239.9	78.5	69.3	268.9	256.5	240.4	71.1	50.4	238.9
16	18.0	0.2	43.7	30.5	229.2	220.0	59.6	47.0	30.8	221.4	200.7	29.2
17	168.3	150.6	194.2	181.1	19.8	10.7	210.2	197.5	181.2	11.7	351.0	179.5
18	318.7	301.1	344.7	331.7	170.5	161.3	0.8	348.0	331.6	162.0	141.3	329.8
19	109.1	91.5	135.2	122.3	321.1	312.0	151.4	138.5	122.0	312.4	291.6	120.1
20	259.4	241.9	285.7	272.9	111.8	102.7	302.0	289.0	272.3	102.7	81.9	270.3
21	49.8	32.4	76.2	63.5	262.5	253.4	92.6	79.4	62.7	253.0	232.1	60.6
22	200.2	182.8	226.7	214.1	53.1	44.0	243.2	229.9	213.1	43.3	22.4	210.9
23	350.6	333.3	17.2	4.7	203.8	194.7	33.8	20.4	3.5	193.6	172.7	1.2
24	140.9	123.7	167.8	155.3	354.5	345.4	184.4	170.9	153.8	343.9	323.0	151.5
25	291.3	274.2	318.3	305.9	145.1	136.0	335.0	321.3	304.2	134.2	113.3	301.8
26	81.7	64.6	108.8	96.5	295.8	286.7	125.6	111.8	94.6	284.5	263.6	92.1
27	232.1	215.1	259.3	247.1	86.5	77.4	276.1	262.3	244.9	74.8	53.8	242.4
28	22.5	5.5	49.9	37.7	237.1	228.0	66.7	52.7	35.3	225.1	204.1	32.7
29	172.9	156.0	200.4	188.3	27.8	18.7	217.3	203.2	185.7	15.4	354.4	183.0
30	323.2		350.9	338.9	178.5	169.3	7.9	353.6	336.0	165.7	144.7	333.2
31	113.6		141.5		329.2		158.4	144.1		316.0		123.6

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	0.0	+0.2	+0.4	+0.5	+0.4	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.1
3	+0.1	0.2	0.4	0.5	0.4	0.1	0.0	0.2	0.5	0.5	0.4	0.1
5	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.3	0.5	0.5	0.3	0.1
7	0.1	0.3	0.5	0.5	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1
9	0.1	0.3	0.5	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1
11	+0.1	+0.3	+0.5	+0.5	+0.3	0.0	0.0	-0.3	-0.5	-0.5	-0.3	-0.1
13	0.1	0.3	0.5	0.5	0.3	0.0	-0.1	0.3	0.5	0.5	0.3	0.1
15	0.1	0.3	0.5	0.5	0.3	0.0	0.1	0.4	0.5	0.5	0.3	0.1
17	0.1	0.3	0.5	0.5	0.2	0.0	0.1	0.4	0.5	0.5	0.2	-0.1
19	0.1	0.4	0.5	0.5	0.2	0.0	0.1	0.4	0.5	0.5	0.2	0.0
21	+0.2	+0.4	+0.5	+0.4	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0
23	0.2	0.4	0.5	0.4	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0
25	0.2	0.4	0.5	0.4	0.2	0.0	0.2	0.4	0.5	0.4	0.2	0.0
27	0.2	0.4	0.5	0.4	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0
29	0.2	+0.4	0.5	+0.4	0.1	0.0	0.2	0.5	-0.5	0.4	-0.2	0.0
31	+0.2		+0.5		+0.1		-0.2	-0.5		-0.4		0.0

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	273.8	253.5	143.4	126.3	320.8	308.5	147.8	138.7	128.1	323.6	306.1	135.8
2	64.1	43.8	293.8	276.7	111.4	99.1	298.4	289.3	278.7	114.1	96.4	286.1
3	214.4	194.2	84.2	67.2	261.9	249.7	89.1	80.0	69.2	264.5	246.8	76.3
4	4.7	344.5	234.6	217.6	52.4	40.3	239.8	230.7	219.8	55.0	37.1	226.6
5	155.0	134.8	25.0	8.1	203.0	190.9	30.5	21.3	10.4	205.4	187.5	16.9
6	305.3	285.2	175.4	158.5	353.5	341.5	181.1	172.0	160.9	355.8	337.8	167.2
7	95.6	75.5	325.8	309.0	144.1	132.2	331.8	322.6	311.5	146.3	128.2	317.5
8	245.9	225.9	116.2	99.5	294.6	282.8	122.5	113.3	102.0	296.7	278.5	107.8
9	36.2	16.2	266.5	249.9	85.1	73.4	273.2	263.9	252.6	87.1	68.9	258.1
10	186.5	166.6	56.9	40.4	235.7	224.1	63.8	54.6	43.1	237.6	219.2	48.4
11	336.8	316.9	207.3	190.9	26.2	14.7	214.5	205.2	193.7	28.0	9.5	198.7
12	127.1	107.2	357.7	341.3	176.8	165.3	5.2	355.9	344.2	178.4	159.9	348.9
13	277.5	257.6	148.2	131.8	327.4	316.0	155.9	146.5	134.7	328.8	310.2	139.2
14	67.8	48.0	298.6	282.3	117.9	106.6	306.5	297.2	285.3	119.2	100.5	289.5
15	218.1	198.3	89.0	72.8	268.5	257.2	97.2	87.8	75.8	269.6	250.8	79.8
16	8.4	348.7	239.4	223.3	59.0	47.9	247.9	238.4	226.3	60.0	41.1	230.1
17	158.7	139.0	29.8	13.7	209.6	198.5	38.6	29.0	16.8	210.4	191.5	20.4
18	309.0	289.4	180.2	164.2	0.2	349.2	189.3	179.7	167.3	0.8	341.8	170.6
19	99.3	79.7	330.6	314.7	150.8	139.8	339.9	330.3	317.8	151.2	132.1	320.9
20	249.6	230.1	121.0	105.2	301.3	290.5	130.6	120.9	108.3	301.6	282.4	111.2
21	39.9	20.5	271.5	255.7	91.9	81.1	281.3	271.5	258.8	92.0	72.7	261.5
22	190.3	170.8	61.9	46.2	242.5	231.8	72.0	62.1	49.3	242.4	223.0	51.7
23	340.6	321.2	212.3	196.7	33.1	22.5	222.6	212.8	199.8	32.8	13.3	202.0
24	130.9	111.6	2.7	347.2	183.7	173.1	13.3	3.4	350.3	183.2	163.7	352.3
25	281.2	261.9	153.2	137.7	334.3	323.8	164.0	154.0	140.8	333.5	314.0	142.6
26	71.5	52.3	303.6	288.2	124.9	114.4	314.7	304.6	291.3	123.9	104.3	292.9
27	221.9	202.7	94.0	78.8	275.4	265.1	105.3	95.2	81.7	274.3	254.6	83.1
28	12.2	353.1	244.5	229.3	66.0	55.8	256.0	245.8	232.2	64.7	44.9	233.4
29	162.5		34.9	19.8	216.6	206.4	46.7	36.3	22.7	215.0	195.2	23.7
30	312.8		185.4	170.3	7.3	357.1	197.3	186.9	173.1	5.4	345.5	174.0
31	103.2		335.8		157.9		348.0	337.5		155.7		324.2

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	0.0	0.0	+0.2	+0.4	+0.6	+0.4	+0.2	0.0	-0.2	-0.5	-0.6	-0.4
3	0.0	+0.1	0.2	0.5	0.6	0.4	0.1	0.0	0.2	0.5	0.5	0.4
5	0.0	0.1	0.2	0.5	0.6	0.4	0.1	0.0	0.2	0.5	0.5	0.4
7	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.2	0.5	0.5	0.4
9	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3	0.5	0.5	0.3
11	0.0	+0.1	+0.3	+0.5	+0.5	+0.4	+0.1	0.0	-0.3	-0.5	-0.5	-0.3
13	0.0	0.1	0.3	0.5	0.5	0.3	+0.1	0.0	0.3	0.5	0.5	0.3
15	0.0	0.1	0.3	0.5	0.5	0.3	0.0	0.0	0.3	0.5	0.5	0.3
17	0.0	0.1	0.3	0.5	0.5	0.3	0.0	-0.1	0.3	0.5	0.5	0.3
19	0.0	0.1	0.3	0.5	0.5	0.3	0.0	0.1	0.4	0.5	0.5	0.3
21	0.0	+0.2	+0.4	+0.5	+0.5	+0.3	0.0	-0.1	-0.4	-0.6	-0.5	-0.3
23	0.0	0.2	0.4	0.5	0.5	0.2	0.0	0.1	0.4	0.6	0.5	0.2
25	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1	0.4	0.6	0.4	0.2
27	0.0	+0.2	0.4	0.6	0.5	0.2	0.0	0.1	0.4	0.6	0.4	0.2
29	0.0		0.4	+0.6	0.5	+0.2	0.0	0.2	-0.5	0.6	-0.4	0.2
31	0.0		+0.4		+0.4		0.0	-0.2		-0.6		-0.2

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	114.5	93.1	341.5	322.0	153.9	138.3	334.7	324.1	315.0	154.3	141.1	333.6
2	264.8	243.4	131.8	112.4	304.3	288.8	125.2	114.7	105.7	304.9	291.5	124.0
3	55.1	33.7	282.1	262.7	94.7	79.3	275.8	265.4	256.3	95.5	82.0	274.4
4	205.3	184.0	72.4	53.1	245.1	229.8	66.4	56.1	47.0	246.1	232.5	64.7
5	355.6	334.3	222.8	203.5	35.6	20.3	217.0	206.7	197.7	36.7	22.9	215.1
6	145.9	124.6	13.1	353.8	186.0	170.8	7.6	357.4	348.4	187.3	173.4	5.4
7	296.2	274.9	163.4	144.2	336.5	321.3	158.2	148.1	139.0	337.9	323.9	155.8
8	86.4	65.1	313.7	294.6	126.9	111.9	308.8	298.8	289.7	128.5	114.3	306.1
9	236.7	215.4	104.1	85.0	277.3	262.4	99.4	89.4	80.4	279.0	264.7	96.5
10	27.0	5.7	254.4	235.4	67.8	52.9	250.1	240.1	231.0	69.6	55.2	246.8
11	177.3	156.0	44.7	25.7	218.2	203.5	40.7	30.8	21.7	220.2	205.6	37.2
12	327.5	306.3	195.0	176.1	8.7	354.0	191.3	181.4	172.3	10.7	356.1	187.5
13	117.8	96.6	345.4	326.5	159.2	144.5	341.9	332.1	323.0	161.3	146.5	337.8
14	268.1	246.9	135.7	116.9	309.6	295.1	132.5	122.8	113.6	311.8	296.9	128.2
15	58.4	37.2	286.0	267.3	100.1	85.6	283.1	273.5	264.3	102.4	87.3	278.5
16	208.6	187.5	76.4	57.7	250.5	236.1	73.8	64.1	54.9	252.9	237.8	68.8
17	358.9	337.8	226.7	208.1	41.0	26.7	224.4	214.8	205.6	43.5	28.2	219.2
18	149.2	128.1	17.1	358.5	191.5	177.2	15.0	5.5	356.2	194.0	178.6	9.5
19	299.5	278.4	167.4	148.9	341.9	327.8	165.7	156.2	146.9	344.5	329.0	159.8
20	89.7	68.7	317.7	299.3	132.4	118.4	316.3	306.9	297.5	135.1	119.4	310.1
21	240.0	219.0	108.1	89.7	282.9	268.9	106.9	97.5	88.1	285.6	269.8	100.4
22	30.3	9.3	258.4	240.1	73.4	59.5	257.6	248.2	238.8	76.1	60.2	250.8
23	180.6	159.6	48.8	30.5	223.8	210.0	48.2	38.9	29.4	226.6	210.6	41.1
24	330.9	309.9	199.1	180.9	14.3	0.6	198.9	189.6	180.0	17.1	1.0	191.4
25	121.1	100.2	349.5	331.3	164.8	151.2	349.5	340.3	330.7	167.6	151.4	341.7
26	271.4	250.6	139.8	121.7	315.3	301.8	140.2	130.9	121.3	318.1	301.8	132.0
27	61.7	40.9	290.2	272.2	105.8	92.3	290.8	281.6	271.9	108.6	92.1	282.3
28	212.0	191.2	80.5	62.6	256.3	242.9	81.5	72.3	62.5	259.1	242.5	72.6
29	2.3		230.9	213.0	46.8	33.5	232.1	223.0	213.1	49.6	32.9	222.9
30	152.6		21.3	3.4	197.3	184.1	22.8	13.7	3.7	200.1	183.3	13.2
31	302.8		171.6		347.8		173.4	164.3		350.6		163.5

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0	-0.1	-0.4	-0.6
3	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1	0.4	0.6
5	0.1	0.0	0.0	0.2	0.5	0.6	0.5	0.2	0.0	0.2	0.5	0.6
7	0.1	0.0	0.0	0.2	0.5	0.6	0.5	0.2	0.0	0.2	0.5	0.6
9	0.1	0.0	+0.1	0.3	0.5	0.6	0.5	0.2	0.0	0.2	0.5	0.6
11	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.2	-0.5	-0.6
13	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.2	0.5	0.6
15	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3	0.5	0.5
17	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3	0.5	0.5
19	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3	0.5	0.5
21	-0.1	0.0	+0.1	+0.4	+0.6	+0.6	+0.3	+0.1	0.0	-0.3	-0.6	-0.5
23	0.0	0.0	0.1	0.4	0.6	0.6	0.3	0.0	-0.1	0.3	0.6	0.5
25	0.0	0.0	0.1	0.4	0.6	0.6	0.3	0.0	0.1	0.4	0.6	0.5
27	0.0	0.0	0.2	0.4	0.6	0.5	0.3	0.0	0.1	0.4	0.6	0.5
29	0.0		0.2	+0.4	0.6	+0.5	0.3	0.0	-0.1	0.4	-0.6	0.5
31	0.0		+0.2		+0.6		+0.2	0.0		-0.4		-0.5

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	313.8	292.5	180.1	159.1	348.8	330.5	163.8	150.0	138.9	339.0	329.4	166.4
2	104.1	82.8	330.4	309.4	139.2	120.9	314.3	300.6	289.5	129.6	120.1	316.9
3	254.4	233.1	120.7	99.7	289.5	271.3	104.8	91.1	80.2	280.3	270.7	107.4
4	44.7	23.3	271.0	250.0	79.9	61.7	255.3	241.7	230.8	71.0	61.3	257.9
5	195.0	173.6	61.2	40.3	230.2	212.2	45.7	32.3	21.5	221.7	211.9	48.4
6	345.3	323.9	211.5	190.6	20.6	2.6	196.2	182.9	172.1	12.4	2.5	198.9
7	135.6	114.2	1.8	340.9	170.9	153.0	346.7	333.4	322.8	163.0	153.1	349.4
8	285.9	264.4	152.1	131.2	321.3	303.4	137.2	124.0	113.4	313.7	303.7	139.9
9	76.2	54.7	302.4	281.5	111.7	93.8	287.7	274.6	264.1	104.4	94.3	290.3
10	226.4	205.0	92.6	71.9	262.0	244.3	78.2	65.2	54.8	255.1	244.9	80.8
11	16.7	355.2	242.9	222.2	52.4	34.7	228.7	215.8	205.4	45.7	35.5	231.3
12	167.0	145.5	33.2	12.5	202.8	185.1	19.3	6.4	356.1	196.4	186.1	21.7
13	317.3	295.8	183.5	162.8	353.1	335.6	169.8	157.0	146.8	347.1	336.7	172.2
14	107.6	86.0	333.8	313.1	143.5	126.0	320.3	307.6	297.4	137.8	127.3	322.6
15	257.9	236.3	124.1	103.4	293.9	276.4	110.8	98.2	88.1	288.4	277.8	113.1
16	48.1	26.6	274.3	253.8	84.2	66.9	261.3	248.8	238.8	79.1	68.4	263.5
17	198.4	176.9	64.6	44.1	234.6	217.3	51.8	39.4	29.5	229.8	219.0	54.0
18	348.7	327.1	214.9	194.4	25.0	7.8	202.4	190.0	180.1	20.4	9.5	204.4
19	139.0	117.4	5.2	344.8	175.4	158.2	352.9	340.6	330.8	171.1	160.1	354.8
20	289.3	267.7	155.5	135.1	325.8	308.7	143.4	131.3	121.5	321.7	310.6	145.3
21	79.5	57.9	305.8	285.4	116.1	99.1	293.9	281.9	272.2	112.4	101.2	295.7
22	229.8	208.2	96.1	75.7	266.5	249.6	84.5	72.5	62.8	263.0	251.7	86.1
23	20.1	358.5	246.4	226.1	56.9	40.0	235.0	223.1	213.5	53.7	42.3	236.5
24	170.4	148.8	36.7	16.4	207.3	190.5	25.6	13.8	4.2	204.4	192.8	26.9
25	320.6	299.0	187.0	166.8	357.7	341.0	176.1	164.4	154.9	355.0	343.3	177.4
26	110.9	89.3	337.3	317.1	148.1	131.4	326.7	315.0	305.6	145.6	133.9	327.8
27	261.2	239.6	127.6	107.4	298.5	281.9	117.2	105.7	96.2	296.3	284.4	118.2
28	51.4	29.9	277.9	257.8	88.9	72.4	267.8	256.3	246.9	86.9	74.9	268.6
29	201.7		68.2	48.1	239.3	222.9	58.3	46.9	37.6	237.6	225.4	59.0
30	352.0		218.5	198.5	29.7	13.3	208.9	197.6	188.3	28.2	15.9	209.3
31	142.3		8.8		180.1		359.4	348.2		178.8		359.7

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.5	-0.2	0.0	0.0	+0.1	+0.4	+0.6	+0.6	+0.3	0.0	-0.1	-0.4
3	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.6	0.3	0.0	0.1	0.4
5	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.6	0.3	0.0	0.1	0.4
7	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1	0.4
9	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1	0.4
11	-0.4	-0.1	0.0	0.0	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2	-0.5
13	0.4	0.1	0.0	0.0	0.2	0.5	0.6	0.5	0.2	0.0	0.2	0.5
15	0.3	0.1	0.0	+0.1	0.2	0.5	0.6	0.5	0.2	0.0	0.2	0.5
17	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.5	0.1	0.0	0.2	0.5
19	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.2	0.5
21	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0	-0.3	-0.5
23	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3	0.5
25	0.3	0.1	0.0	0.1	0.3	0.6	0.6	0.4	0.1	0.0	0.3	0.5
27	0.3	-0.1	0.0	0.1	0.3	0.6	0.6	0.4	+0.1	0.0	0.3	0.5
29	0.2		0.0	+0.1	0.4	+0.6	0.6	0.3	0.0	-0.1	-0.3	0.6
31	-0.2		0.0		+0.4		+0.6	+0.3		-0.1		-0.6

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	150.1	130.7	169.0	147.4	336.0	315.8	146.8	130.1	115.8	313.6	304.2	144.3
2	300.5	281.0	319.3	297.7	126.3	106.1	297.2	280.6	266.4	104.3	94.9	295.0
3	90.9	71.3	109.6	88.0	276.6	256.5	87.6	71.0	56.9	254.9	245.6	85.6
4	241.3	221.6	259.8	238.3	66.9	46.8	238.0	221.5	207.5	45.6	36.3	236.2
5	31.6	11.9	50.1	28.5	217.2	197.2	28.4	12.0	358.1	196.2	187.0	26.9
6	182.0	162.2	200.4	178.8	7.5	347.5	178.8	162.5	148.6	346.8	337.6	177.5
7	332.4	312.5	350.7	329.1	157.8	137.9	329.2	312.9	299.2	137.5	128.3	328.1
8	122.7	102.8	140.9	119.4	308.1	288.2	119.6	103.4	89.8	288.1	279.0	118.7
9	273.1	253.1	291.2	269.6	98.4	78.6	270.0	253.9	240.3	78.8	69.7	269.4
10	63.5	43.4	81.5	59.9	248.7	228.9	60.4	44.4	30.9	229.4	220.4	60.0
11	213.8	193.7	231.7	210.2	39.0	19.3	210.8	194.9	181.5	20.1	11.0	210.6
12	4.2	344.0	22.0	0.5	189.3	169.6	1.3	345.4	332.1	170.8	161.7	1.2
13	154.5	134.3	172.3	150.8	339.6	320.0	151.7	135.9	122.6	321.4	312.4	151.8
14	304.9	284.5	322.5	301.0	129.9	110.4	302.1	286.4	273.2	112.1	103.1	302.4
15	95.2	74.8	112.8	91.3	280.3	260.7	92.5	76.9	63.8	262.7	253.7	93.0
16	245.5	225.1	263.1	241.6	70.6	51.1	243.0	227.4	214.4	53.4	44.4	243.6
17	35.9	15.4	53.4	31.9	220.9	201.5	33.4	17.9	5.0	204.1	195.1	34.2
18	186.2	165.7	203.6	182.2	11.2	351.8	183.8	168.4	155.6	354.7	345.8	184.7
19	336.6	316.0	353.9	332.5	161.5	142.2	334.2	318.9	306.2	145.4	136.4	335.3
20	126.9	106.2	144.2	122.8	311.8	292.6	124.7	109.4	96.8	296.1	287.1	125.9
21	277.2	256.5	294.4	273.0	102.2	82.9	275.1	259.9	247.4	86.8	77.8	276.5
22	67.5	46.8	84.7	63.3	252.5	233.3	65.6	50.5	38.0	237.4	228.4	67.0
23	217.9	197.1	235.0	213.6	42.8	23.7	216.0	201.0	188.6	28.1	19.1	217.6
24	8.2	347.4	25.3	3.9	193.1	174.1	6.4	351.5	339.3	178.8	169.8	8.2
25	158.5	137.6	175.5	154.2	343.5	324.5	156.9	142.0	129.9	329.5	320.4	158.7
26	308.8	287.9	325.8	304.5	133.8	114.8	307.3	292.6	280.5	120.1	111.1	309.3
27	99.1	78.2	116.1	94.8	284.1	265.2	97.8	83.1	71.1	270.8	261.7	99.8
28	249.5	228.5	266.3	245.1	74.5	55.6	248.3	233.6	221.7	61.5	52.4	250.4
29	39.8	18.7	56.6	35.4	224.8	206.0	38.7	24.2	12.4	212.2	203.0	40.9
30	190.1		206.9	185.7	15.1	356.4	189.2	174.7	163.0	2.9	353.7	191.4
31	340.4		357.2		165.5		339.6	325.3		153.5		342.0

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	-0.6	-0.5	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1	0.0
3	0.6	0.5	0.3	-0.1	0.0	0.1	0.3	0.5	0.6	0.3	+0.1	0.0
5	0.6	0.5	0.2	0.0	0.0	0.1	0.4	0.6	0.6	0.3	0.0	-0.1
7	0.6	0.5	0.2	0.0	0.0	0.1	0.4	0.6	0.6	0.3	0.0	0.1
9	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.3	0.0	0.1
11	-0.6	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.3	0.0	-0.1
13	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1
15	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.1
17	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0	0.2
19	0.5	0.4	0.1	0.0	0.0	0.2	0.5	0.6	0.5	0.2	0.0	0.2
21	-0.5	-0.3	-0.1	0.0	+0.1	+0.2	+0.5	+0.6	+0.5	+0.2	0.0	-0.2
23	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.2
25	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.2
27	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1	0.0	0.3
29	0.5	-0.3	0.1	0.0	0.1	+0.3	0.5	0.6	+0.4	0.1	0.0	0.3
31	-0.5		-0.1		+0.1		+0.5	+0.6		+0.1		-0.3

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	132.5	116.7	6.8	346.1	174.4	153.3	342.7	323.9	306.9	141.8	129.9	329.7
2	283.0	267.1	157.1	136.4	324.7	303.6	133.0	114.3	97.4	292.4	280.6	120.3
3	73.5	57.5	307.4	286.6	115.0	93.9	283.4	264.6	247.9	82.9	71.2	271.0
4	224.1	207.9	97.7	76.9	265.2	244.2	73.7	55.0	38.3	233.5	221.8	61.7
5	14.6	358.3	248.1	227.2	55.5	34.5	224.1	205.4	188.8	24.0	12.5	212.4
6	165.1	148.7	38.4	17.5	205.8	184.8	14.4	355.8	339.3	174.6	163.1	3.1
7	315.6	299.1	188.7	167.8	356.1	335.1	164.7	146.2	129.7	325.1	313.7	153.8
8	106.1	89.5	339.0	318.0	146.4	125.4	315.1	296.6	280.2	115.7	104.4	304.4
9	256.6	239.8	129.3	108.3	296.6	275.7	105.4	87.0	70.7	266.3	255.0	95.1
10	47.0	30.2	279.6	258.6	86.9	66.0	255.8	237.4	221.2	56.8	45.7	245.8
11	197.5	180.6	69.9	48.9	237.2	216.3	46.1	27.9	11.6	207.4	196.3	36.5
12	348.0	331.0	220.2	199.1	27.5	6.6	196.5	178.3	162.1	357.9	347.0	187.2
13	138.5	121.3	10.5	349.4	177.8	156.9	346.8	328.7	312.6	148.5	137.6	337.8
14	289.0	271.7	160.8	139.7	328.0	307.2	137.2	119.1	103.1	299.1	288.3	128.5
15	79.4	62.0	311.1	290.0	118.3	97.5	287.5	269.5	253.6	89.7	78.9	279.2
16	229.9	212.4	101.4	80.3	268.6	247.8	77.9	59.9	44.1	240.3	229.6	69.9
17	20.3	2.7	251.7	230.5	58.9	38.2	228.3	210.3	194.6	30.8	20.2	220.6
18	170.8	153.1	42.0	20.8	209.2	188.5	18.6	0.8	345.1	181.4	170.9	11.2
19	321.2	303.4	192.3	171.1	359.5	338.8	169.0	151.2	135.6	332.0	321.6	161.9
20	111.7	93.8	342.6	321.4	149.8	129.1	319.3	301.6	286.1	122.6	112.2	312.6
21	262.1	244.1	132.9	111.6	300.0	279.4	109.7	92.1	76.6	273.2	262.9	103.3
22	52.6	34.5	283.2	261.9	90.3	69.7	260.1	242.5	227.1	63.8	53.6	253.9
23	203.0	184.8	73.5	52.2	240.6	220.1	50.5	32.9	17.6	214.4	204.3	44.6
24	353.4	335.1	223.8	202.5	30.9	10.4	200.8	183.4	168.1	5.0	354.9	195.3
25	143.9	125.5	14.1	352.7	181.2	160.7	351.2	333.8	318.7	155.6	145.6	345.9
26	294.3	275.8	164.4	143.0	331.5	311.0	141.6	124.2	109.2	306.2	296.3	136.6
27	84.7	66.1	314.6	293.3	121.8	101.4	292.0	274.7	259.7	96.8	86.9	287.3
28	235.1	216.5	104.9	83.6	272.1	251.7	82.3	65.1	50.2	247.4	237.6	77.9
29	25.5		255.2	233.8	62.4	42.0	232.7	215.6	200.8	38.1	28.3	228.6
30	175.9		45.5	24.1	212.7	192.4	23.1	6.0	351.3	188.7	179.0	19.3
31	326.3		195.8		3.0		173.5	156.5		339.3		169.9

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	o	o	o	o	o	o	o	o	o	o	o	o
1	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.6	+0.4	+0.1
3	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.6	0.4	0.1
5	0.4	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3	0.1
7	0.4	0.6	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3	+0.1
9	0.4	0.6	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3	0.0
11	-0.4	-0.6	-0.5	-0.2	-0.1	0.0	+0.1	+0.3	+0.5	+0.5	+0.3	0.0
13	0.4	0.6	0.5	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.3	0.0
15	0.4	0.6	0.4	0.2	0.0	0.0	0.1	0.4	0.5	0.5	0.2	0.0
17	0.5	0.6	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.5	0.2	0.0
19	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.5	0.2	0.0
21	-0.5	-0.5	-0.4	-0.2	0.0	0.0	+0.2	+0.4	+0.6	+0.5	+0.2	0.0
23	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.6	0.5	0.2	0.0
25	0.5	0.5	0.4	0.1	0.0	0.0	0.2	0.4	0.6	0.4	0.1	0.0
27	0.5	-0.5	0.4	0.1	0.0	0.0	0.2	0.4	0.6	0.4	0.1	0.0
29	0.5		0.3	-0.1	0.0	+0.1	0.2	0.5	+0.6	0.4	+0.1	0.0
31	-0.5		-0.3		0.0		+0.3	+0.5		+0.4		0.0

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	320.6	309.2	202.7	184.5	13.9	352.8	181.5	161.3	142.5	335.1	320.4	157.8
2	111.2	99.7	353.1	334.8	164.2	143.0	331.8	311.6	292.9	125.5	110.9	308.4
3	261.9	250.3	143.6	125.1	314.5	293.3	122.1	102.0	83.3	276.0	261.5	99.0
4	52.5	40.8	294.0	275.5	104.7	83.6	272.4	252.3	233.7	66.4	52.0	249.7
5	203.2	191.3	84.4	65.8	255.0	233.9	62.7	42.7	24.0	216.9	202.6	40.3
6	353.8	341.8	234.8	216.1	45.3	24.2	213.0	193.0	174.4	7.4	353.1	190.9
7	144.4	132.3	25.2	6.5	195.6	174.5	3.3	343.3	324.8	157.8	143.7	341.6
8	295.1	282.9	175.6	156.8	345.9	324.8	153.6	133.7	115.2	308.3	294.2	132.2
9	85.7	73.4	326.0	307.1	136.2	115.0	303.9	284.0	265.6	98.8	84.8	282.8
10	236.3	223.9	116.4	97.4	286.5	265.3	94.2	74.4	56.1	249.3	235.3	73.5
11	26.9	14.4	266.8	247.8	76.8	55.6	244.5	224.7	206.5	39.7	25.9	224.1
12	177.6	164.9	57.2	38.1	227.1	205.9	34.8	15.1	356.9	190.2	176.5	14.8
13	328.2	315.4	207.6	188.4	17.4	356.2	185.2	165.4	147.3	340.7	327.0	165.4
14	118.8	105.9	358.0	338.7	167.6	146.5	335.5	315.8	297.7	131.2	117.6	316.1
15	269.4	256.3	148.4	129.0	317.9	296.8	125.8	106.2	88.1	281.7	268.2	106.7
16	60.0	46.8	298.8	279.3	108.2	87.1	276.1	256.5	238.5	72.2	58.8	257.4
17	210.6	197.3	89.1	69.6	258.5	237.4	66.4	46.9	28.9	222.7	209.3	48.0
18	1.2	347.8	239.5	220.0	48.8	27.6	216.7	197.2	179.4	13.2	359.9	198.7
19	151.8	138.2	29.9	10.3	199.1	177.9	7.1	347.6	329.8	163.7	150.5	349.4
20	302.4	288.7	180.2	160.6	349.4	328.2	157.4	138.0	120.2	314.2	301.1	140.0
21	93.0	79.2	330.6	310.9	139.6	118.5	307.7	288.3	270.7	104.7	91.7	290.7
22	243.6	229.6	121.0	101.2	289.9	268.8	98.0	78.7	61.1	255.2	242.3	81.3
23	34.1	20.1	271.3	251.5	80.2	59.1	248.3	229.1	211.5	45.7	32.9	232.0
24	184.7	170.5	61.7	41.8	230.5	209.4	38.7	19.4	2.0	196.2	183.5	22.7
25	335.3	321.0	212.0	192.1	20.8	359.7	189.0	169.8	152.4	346.7	334.1	173.4
26	125.9	111.4	2.4	342.4	171.1	150.0	339.3	320.2	302.8	137.2	124.7	324.0
27	276.4	261.8	152.8	132.7	321.3	300.3	129.6	110.6	93.3	287.7	275.3	114.7
28	67.0	52.3	303.1	283.0	111.6	90.6	280.0	260.9	243.7	78.3	65.9	265.4
29	217.5		93.4	73.3	261.9	240.9	70.3	51.3	34.2	228.8	216.5	56.0
30	8.1		243.8	223.6	52.2	31.2	220.6	201.7	184.6	19.3	7.2	206.7
31	158.6		34.1		202.5		11.0	352.1		169.9		357.4

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	0.0	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	0.0	+0.2	+0.4	+0.5	+0.4
3	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4	0.5	0.4
5	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.4	0.5	0.4
7	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
9	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
11	-0.1	-0.4	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.3	+0.5	+0.5	+0.3
13	0.1	0.4	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5	0.3
15	0.1	0.4	0.5	0.5	0.2	-0.1	0.0	0.1	0.3	0.5	0.5	0.3
17	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.2
19	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.5	0.2
21	-0.2	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.4	+0.5	+0.5	+0.2
23	0.2	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4	0.2
25	0.2	0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4	0.2
27	0.2	-0.5	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4	0.1
29	0.2		0.5	-0.4	0.1	0.0	0.0	0.2	+0.4	0.5	+0.4	0.1
31	-0.3		-0.5		-0.1		0.0	+0.2		+0.5		+0.1

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	148.1	139.0	36.1	21.6	213.4	193.5	22.4	1.5	341.5	172.3	155.4	350.3
2	298.8	289.6	186.7	172.1	3.8	343.8	172.6	151.8	131.8	322.7	305.9	140.8
3	89.4	80.3	337.2	322.5	154.1	134.1	322.9	302.1	282.2	113.1	96.3	291.4
4	240.1	230.9	127.8	112.9	304.5	284.4	113.2	92.5	72.5	263.5	246.8	81.9
5	30.8	21.6	278.3	263.4	94.8	74.7	263.5	242.8	222.8	53.9	37.3	232.5
6	181.5	172.2	68.9	53.8	245.2	225.0	53.8	33.1	13.2	204.3	187.7	23.0
7	332.2	322.9	219.4	204.2	35.5	15.3	204.1	183.4	163.5	354.7	338.2	173.6
8	122.8	113.5	10.0	354.6	185.8	165.6	354.4	333.7	313.9	145.1	128.7	324.1
9	273.5	264.1	160.5	145.0	336.2	315.9	144.7	124.0	104.2	295.5	279.2	114.7
10	64.2	54.8	311.0	295.4	126.5	106.2	295.0	274.3	254.6	85.9	69.6	265.3
11	214.9	205.4	101.5	85.9	276.8	256.5	85.3	64.6	44.9	236.3	220.1	55.8
12	5.6	356.0	252.1	236.3	67.2	46.8	235.6	214.9	195.3	26.7	10.6	206.4
13	156.3	146.7	42.6	26.7	217.5	197.1	25.9	5.3	345.6	177.2	161.1	357.0
14	306.9	297.3	193.1	177.1	7.8	347.4	176.2	155.6	136.0	327.6	311.6	147.5
15	97.6	87.9	343.6	327.5	158.2	137.7	326.4	305.9	286.4	118.0	102.1	298.1
16	248.3	238.5	134.1	117.8	308.5	288.0	116.7	96.2	76.7	268.4	252.6	88.7
17	39.0	29.1	284.6	268.2	98.8	78.3	267.0	246.5	227.1	58.8	43.1	239.3
18	189.7	179.7	75.1	58.6	249.1	228.6	57.3	36.9	17.4	209.3	193.6	29.8
19	340.3	330.3	225.6	209.0	39.4	18.8	207.6	187.2	167.8	359.7	344.1	180.4
20	131.0	120.9	16.1	359.4	189.8	169.1	357.9	337.5	318.2	150.1	134.6	331.0
21	281.7	271.5	166.6	149.8	340.1	319.4	148.2	127.8	108.6	300.5	285.1	121.6
22	72.4	62.1	317.0	300.1	130.4	109.7	298.5	278.1	258.9	91.0	75.6	272.2
23	223.0	212.7	107.5	90.5	280.7	260.0	88.8	68.5	49.3	241.4	226.1	62.8
24	13.7	3.3	258.0	240.9	71.0	50.3	239.1	218.8	199.7	31.8	16.6	213.4
25	164.4	153.8	48.5	31.3	221.3	200.6	29.4	9.1	350.0	182.3	167.1	4.0
26	315.0	304.4	198.9	181.6	11.6	350.9	179.7	159.5	140.4	332.7	317.7	154.6
27	105.7	95.0	349.4	332.0	162.0	141.2	330.0	309.8	290.8	123.2	108.2	305.2
28	256.4	245.6	139.8	122.3	312.3	291.5	120.3	100.1	81.2	273.6	258.7	95.8
29	47.0		290.3	272.7	102.6	81.8	270.6	250.5	231.6	64.1	49.2	246.4
30	197.7		80.7	63.1	252.9	232.1	60.9	40.8	22.0	214.5	199.8	37.1
31	348.3		231.2		43.2		211.2	191.1		5.0		187.7

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.1	0.0	-0.2	-0.5	-0.5	-0.4	-0.1	0.0	0.0	+0.2	+0.4	+0.5
3	0.1	0.0	0.2	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4	0.5
5	0.1	0.0	0.2	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4	0.5
7	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.4	0.5
9	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.2	0.4	0.5
11	0.0	-0.1	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.2	+0.4	+0.5
13	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.4	0.5
15	0.0	0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.5	0.5
17	0.0	0.1	0.4	0.5	0.4	0.2	0.1	0.0	0.1	0.3	0.5	0.5
19	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1	0.3	0.5	0.4
21	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.3	+0.5	+0.4
23	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.4
25	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5	0.4
27	0.0	-0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.2	0.4	0.5	0.4
29	0.0		0.4	-0.5	0.4	-0.2	0.0	0.0	+0.2	0.4	+0.5	0.4
31	0.0		-0.5		-0.4		0.0	0.0		+0.4		+0.4

LONGITUDE OF CENTRAL MERIDIAN

SYSTEM III (1965)

FOR 0 HOURS UNIVERSAL TIME

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	338.3	328.6	18.2	7.2	202.3	184.7	14.6	353.9	333.2	162.9	144.3	337.1
2	128.9	119.3	168.8	157.8	352.7	335.0	164.9	144.2	123.5	313.3	294.7	127.5
3	279.6	270.0	319.5	308.3	143.2	125.4	315.2	294.5	273.8	103.6	85.1	278.0
4	70.2	60.7	110.1	98.9	293.6	275.7	105.5	84.8	64.1	254.0	235.5	68.5
5	220.8	211.3	260.8	249.4	84.1	66.1	255.8	235.1	214.5	44.3	25.9	218.9
6	11.5	2.0	51.4	40.0	234.5	216.4	46.1	25.4	4.8	194.7	176.3	9.4
7	162.1	152.7	202.1	190.5	24.9	6.8	196.4	175.7	155.1	345.0	326.7	159.9
8	312.7	303.4	352.7	341.0	175.3	157.1	346.7	326.0	305.4	135.4	117.1	310.4
9	103.4	94.1	143.4	131.6	325.8	307.4	137.0	116.3	95.7	285.7	267.5	100.9
10	254.0	244.7	294.0	282.1	116.2	97.8	287.3	266.6	246.0	76.1	57.9	251.3
11	44.7	35.4	84.6	72.6	266.6	248.1	77.6	56.9	36.3	226.4	208.3	41.8
12	195.3	186.1	235.3	223.1	57.0	38.5	227.9	207.2	186.7	16.8	358.7	192.3
13	346.0	336.8	25.9	13.7	207.4	188.8	18.2	357.5	337.0	167.1	149.2	342.8
14	136.6	127.5	176.5	164.2	357.8	339.1	168.5	147.8	127.3	317.5	299.6	133.3
15	287.3	278.1	327.2	314.7	148.2	129.5	318.8	298.1	277.6	107.9	90.0	283.8
16	77.9	68.8	117.8	105.2	298.6	279.8	109.1	88.4	67.9	258.2	240.4	74.3
17	228.6	219.5	268.4	255.7	89.0	70.1	259.4	238.7	218.3	48.6	30.9	224.8
18	19.2	10.2	59.0	46.2	239.4	220.5	49.7	29.0	8.6	199.0	181.3	15.3
19	169.9	160.8	209.6	196.7	29.8	10.8	200.0	179.3	158.9	349.3	331.7	165.8
20	320.6	311.5	0.2	347.2	180.2	161.1	350.3	329.6	309.2	139.7	122.2	316.3
21	111.2	102.2	150.8	137.6	330.6	311.4	140.6	119.9	99.6	290.1	272.6	106.8
22	261.9	252.9	301.4	288.1	121.0	101.7	290.9	270.2	249.9	80.4	63.0	257.3
23	52.6	43.5	92.0	78.6	271.3	252.1	81.2	60.5	40.2	230.8	213.5	47.9
24	203.2	194.2	242.6	229.1	61.7	42.4	231.5	210.8	190.6	21.2	3.9	198.4
25	353.9	344.9	33.2	19.5	212.1	192.7	21.8	1.1	340.9	171.6	154.4	348.9
26	144.6	135.5	183.8	170.0	2.5	343.0	172.1	151.4	131.2	322.0	304.8	139.4
27	295.2	286.2	334.4	320.5	152.8	133.3	322.4	301.7	281.6	112.3	95.3	290.0
28	85.9	76.9	124.9	110.9	303.2	283.6	112.7	92.0	71.9	262.7	245.7	80.5
29	236.6	227.5	275.5	261.4	93.6	74.0	263.0	242.3	222.2	53.1	36.2	231.0
30	27.3		66.1	51.8	243.9	224.3	53.3	32.6	12.6	203.5	186.6	21.6
31	177.9		216.6		34.3		203.6	182.9		353.9		172.1

CORRECTION FOR PHASE

DAY	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
	°	°	°	°	°	°	°	°	°	°	°	°
1	+0.4	+0.1	0.0	-0.2	-0.4	-0.5	-0.4	-0.1	0.0	0.0	+0.2	+0.4
3	0.3	0.1	0.0	0.2	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4
5	0.3	0.1	0.0	0.2	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4
7	0.3	+0.1	0.0	0.3	0.5	0.5	0.3	0.1	0.0	0.0	0.2	0.4
9	0.3	0.0	0.0	0.3	0.5	0.5	0.3	0.1	0.0	+0.1	0.2	0.4
11	+0.3	0.0	0.0	-0.3	-0.5	-0.5	-0.3	-0.1	0.0	+0.1	+0.2	+0.4
13	0.3	0.0	-0.1	0.3	0.5	0.5	0.3	0.1	0.0	0.1	0.3	0.4
15	0.2	0.0	0.1	0.3	0.5	0.4	0.3	0.1	0.0	0.1	0.3	0.4
17	0.2	0.0	0.1	0.3	0.5	0.4	0.2	0.1	0.0	0.1	0.3	0.4
19	0.2	0.0	0.1	0.4	0.5	0.4	0.2	-0.1	0.0	0.1	0.3	0.5
21	+0.2	0.0	-0.1	-0.4	-0.5	-0.4	-0.2	0.0	0.0	+0.1	+0.3	+0.5
23	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5
25	0.2	0.0	0.1	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.3	0.5
27	0.1	0.0	0.2	0.4	0.5	0.4	0.2	0.0	0.0	0.1	0.4	0.5
29	0.1	0.0	0.2	-0.4	0.5	-0.4	0.2	0.0	0.0	0.2	+0.4	0.5
31	+0.1		-0.2		-0.5		-0.2	0.0		+0.2		+0.5